

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**  
1594 West North Temple Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
Telephone: (801) 538-5291  
Fax: (801) 359-3940

**ANNUAL REPORT OF MINING OPERATIONS**

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. General Information

1. Report Time Period: From: **1/2003** To: **12/2003**
2. DOGM File Number (Mine No.): **M/045/004**
3. Mine Name: **Pine Canyon Reclamation Project**
4. Mineral(s) Mined (or permitted to mine): **Copper and associated metals**
5. Type of Mine: \_\_\_ Surface Mine or **X** **Underground Mine**
6. Legal Description, (Location of Land Affected):

**Section 17, S1/2 SW1/4;**  
**Section 20, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, E1/2 SE1/4;**  
**Section 21, SW1/4 SW1/4;**  
**Section 28, W1/2 NW1/4;**  
**Section 29, NE1/4 NE1/4;**  
**Township 3 South, Range 3 West,**  
***Salt Lake Base and Meridian, Tooele County, Utah***

7. Name of Operator or Company: **Kennecott Utah Copper Corporation**
8. Permanent Street Address: **8362 West 10200 South**  
City, State, Zip: **Bingham Canyon, Utah 84006**  
Phone: **(801) 569-7120**  
Fax: **(801) 569-7192**

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JAN 30 2004

DIV. OF OIL, GAS & MINING

Mailing Address: **P.O. Box 6001**  
**8315 West 3595 South**  
City, State, Zip: **Magna, UT 84044**  
Phone: **(801) 569-7120**  
Fax: **(801) 569-7192**

9. Company Representative (or designated operator):

Name: **Paula Doughty**  
Title: **Manager, Environmental Affairs and Strategic Resources**  
Business Address: **P.O. Box 6001**  
City, State, Zip: **Magna, UT 84044**  
Phone: **(801) 569-7120**  
Fax: **(801) 569-7192**

☐ Please check if any of the above information has changed since previous year

II. **Mining and Reclamation**

1. Was the mine active during the past year? **NO**
2. If no – what was the last year of activity?

**KUCC purchased the inactive property from Anaconda Minerals Co. in 1985.**

3. If yes – how much ore or mineral was mined?

**NA**

4. Briefly describe the type of work performed, volume of materials moved, and any new or additional surface disturbances that occurred during the past year.

**Water is continuously being pumped out of the shaft and is piped through the Pine canyon/Parvenu tunnel to the Bingham Canyon Mine where it is discharged to establish water collection systems. The water is being removed as part of the general pit dewatering program at the Bingham Canyon mine. The only other work was general systems maintenance, such as preventive maintenance on pumps.**

5. How much additional acreage was disturbed during the year?

**No additional acreage was disturbed in 2003.**

6. How much acreage was reclaimed during the past year?

**No reclamation took place in 2003.**

7. Briefly describe the reclamation work performed during the past year (2003). This description should include methods employed, and an evaluation of the results.

**No reclamation took place in 2003.**

8. What is the total disturbed acreage of the entire project at years end (2003)?

**The only disturbed acreage left in Pine Canyon are those sites identified in the 1988 reclamation plan that were left for long term use in the canyon (17.3 acres). These sites include the Pine Canyon tunnel portal and concrete flume, production shaft head frame, access road, the warehouse shop, culinary water system, water supply wells, power line to the wells, fresh water tank and a small waste rock pile adjacent to the head frame.**

9. Briefly describe any mining and/or reclamation plans for the upcoming year.

**Water will continue to be pumped out of the Carr Fork shaft and is then piped through the Pine Canyon/Parvenu tunnel to the Bingham Canyon Mine where it will be discharged to established water collection systems.**

NOTE: Section III., "Additional Information" applies only to large mining operations.

**III. Additional Information – R647-4-121.2 and .3**

1. The operator shall include an updated map depicting the surface disturbance and reclamation performed during the year, prepare in accordance with Rule R647-4-105.

**No new map of the area is attached because there have been no significant changes to the area since a map was submitted in 1998.**

2. The operator shall keep and maintain timely records relating to his performance under the Act, and shall make these records available to the Division upon request.

**Kennecott Utah Copper Corporation updates and maintains reclamation records and those records can be made available to the Division upon request. Water level data and analytical results for 2003 are attached.**

IV. Signature Requirement

I hereby certify that the foregoing is true and correct.

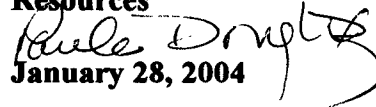
Name (Typed or Print):

**Paula Doughty**

Title of Operator:

**Manager Environmental Affairs and Strategic  
Resources**

Signature of Operator:



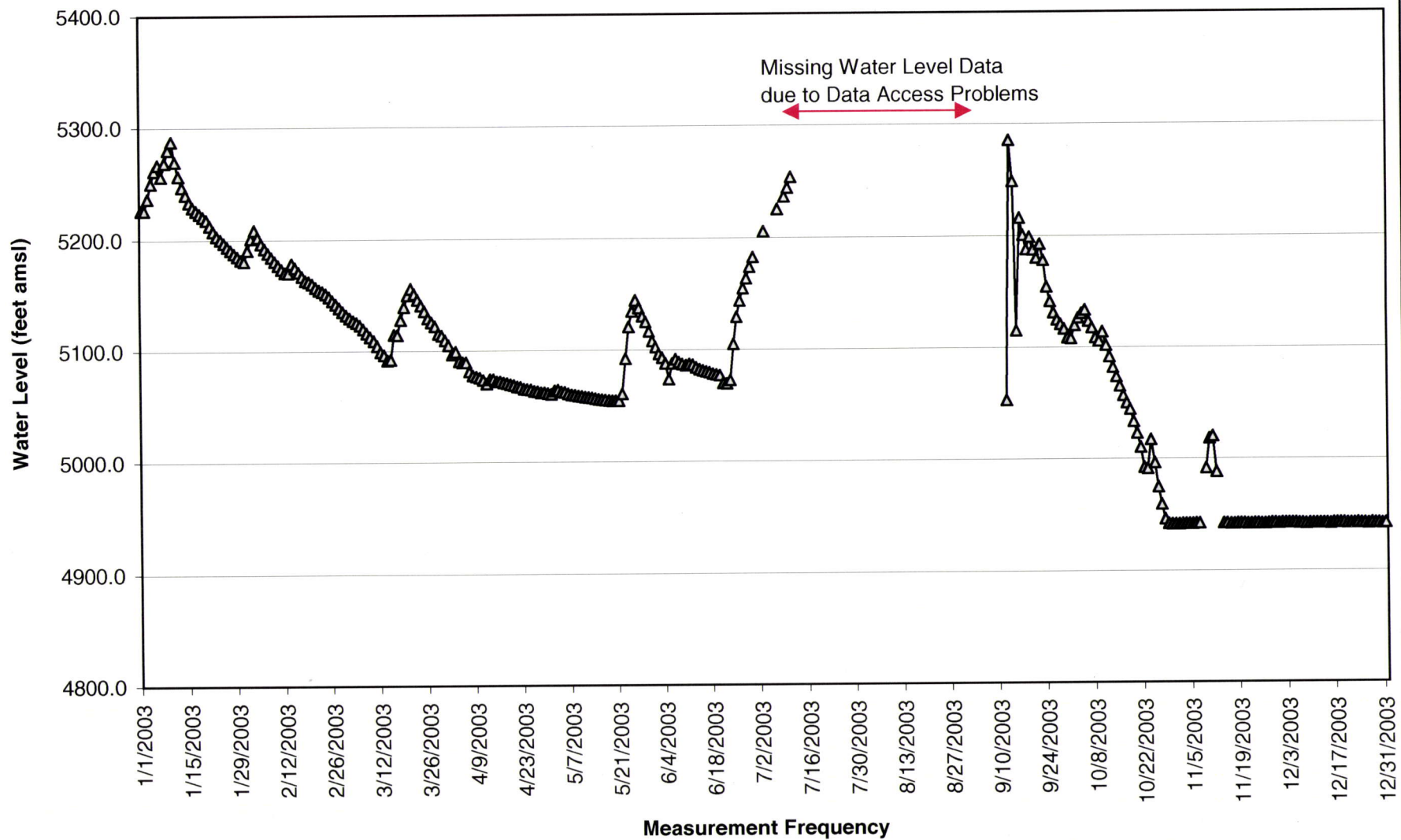
Date:

**January 28, 2004**

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Figure 1. 2003 Water Level Data Measured in the Carr Fork Service Shaft



**Table 1. 2003 Carr Fork service Shaft Analytical results**

Field Parameters and Total Metals

Sample Description	Kennecott Sample ID	Sample Date	Cond. umhos/cm	pH	Temp. °C	Alk. mg/L CaCO <sub>3</sub>	TDS mg/L	Ca mg/L	Cl mg/L	K mg/L	Mg mg/L	Na mg/L	SO <sub>4</sub> mg/L
Carr Fork Service Shaft	BMS1356	1/22/03	2120	7.4	18	242	1930	402	15	4.5	130	18	1100
		5/12/03	1963	6.89	20	240	1770	392	19	3.04	122	14.8	1150
		9/29/03	2160	6.42	20	207	2150	457	18	3.6	130	15	1380
		12/18/03	1900	6.7	15.5	236	1810	377	18	3.7	113	15	1120

Dissolved Metals

Sample Description	Kennecott Sample ID	Sample Date	Ag ug/L	As ug/L	Ba ug/L	Cd ug/L	Cr ug/L	Cu ug/L	Fe ug/L	Ni ug/L	Pb ug/L	Se ug/L	Zn ug/L
Carr Fork Service Shaft	BMS1356	1/22/03	<1	27	16	<1	<10	<20	2250	<40	<5	<2 <sup>1</sup>	565
		5/12/03	<1	27	17	<1	<10	<20	1250	<40	7	<2 <sup>2</sup>	771
		9/29/03	<1	49	19	7	<10	<20	5750	52	<5	<2 <sup>2</sup>	3210
		12/18/03	<1	45	22	<1	<10	<20	4750	<40	<5	<2 <sup>2</sup>	892

1 - Hydride Method

2 - DRC Method



Kennecott Utah Copper Corporation  
12000 West 2100 South  
P.O. Box 6001  
Magna, Utah 84044-6001  
Tel: (801) 569-7120 (Barney's)  
Fax: (801) 569-7192 (Barney's)  
Tel: (801) 569-7596 (Smelter EMC)  
Fax: (801) 569-6408 (Smelter EMC)

**Paula H. Doughty**  
Manager, Environmental Affairs and  
Strategic Resources

*m/045/004*  
*2/06/04*  
*EL*

**Kennecott**

January 28, 2004

Mr. Wayne Hedberg, Permit Supervisor  
Minerals Reclamation Program  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801

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JAN 30 2004

DIV. OF OIL, GAS & MINING

Subject: Annual Reports for 2003, Kennecott Utah Copper Corporation

Dear Mr. Hedberg,

Enclosed are the completed annual reclamation report forms for the following Kennecott Utah Copper Corporation (KUCC) DOGM permits:

M/035/002	Bingham Pit and UCD Modernization (Active)
M/035/011	4 <sup>th</sup> Line / Copperton Concentrator (Active)
M/035/015	North Impoundment / Saltair / Tailings (Active)
M/035/004	Pine Canyon Reclamation Project (Inactive)

As in previous years reports, all disturbed and reclaimed acreage on the Magna Tailings Impoundment are reported under permit number M/035/002. Approximately 180 acres of land was disturbed for development by Kennecott Land Company within the M/035/002 permit boundary, however this was not added to the total disturbed area since it was not mining-related.

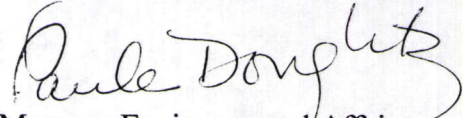
Some information has changed since the previous year. Paula Doughty will be the company representative, or designated contact for all four sites. In addition, both a mailing address and a physical address has been included in question number 8.



In 2003, KUCC spent approximately \$1,970,000 dollars on reclamation activities within the boundaries of permit M/035/002. These costs included purchase of seed, fertilizer, surface preparation and rental of equipment. They also included maintaining a sprinkler irrigation system for the Magna Tailings Impoundment. After correcting for inflation, this equates to \$663,445 spent in 1978 dollars. This is well in excess of the \$50,000 annual expenditure required by permit #M/035/002.

If you have any questions about these annual reports, please contact me at 569-7120.

Paula Doughty

A handwritten signature in cursive script that reads "Paula Doughty". The signature is written in dark ink and is positioned above the printed title.

Manager Environmental Affairs  
and Strategic Resources